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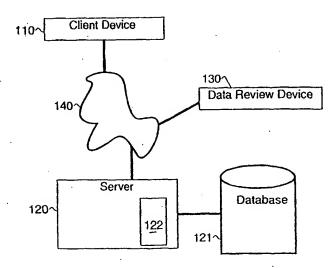
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(57) Abstract

The invention provides a set of techniques and products in which one or more insured persons and one or more associated beneficiaries are monitored with regard to dynamic risk reassessment, given feedback information in response to that dynamic risk reassessment, and are encouraged to comply with the feedback. The insured persons and associated beneficiaries are coupled to a client-server system disposed for dynamic measurement of medical information, and the client-server system is disposed for alerting the insured persons and associated beneficiaries to suggested behaviors for reducing risk. The invention includes an insurance product in which portions of the insurance premium are allocated to one or more components, in response to compliance with the suggested behaviors.

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APPLICATION FOR UNITED STATES LETTERS PATENT FOR:

REDUCING RISK USING BEHAVIORAL AND FINANCIAL REWARDS

These known methods increase the incentive for the insured entity to re-1 duce the insured-against risk. However, these methods are subject to several draw-2 backs. Where the insured-against risk is relatively inevitable (such as with life insurance or long-term care insurance), the insurance company finds it difficult to avoid the inevitability of a claim. Rather, it is in the underwriter's interest to stave off 5 the claim for as long as possible. 6 Certain kinds of insurance (such as long-term care insurance) also have a 7 substantial effect on the family of the insured person. For example, the insured person 8 is often faced with the dilemma of either (1) reduction to penury to qualify for gov-9 ernment support, or (2) spending their entire estate on long-term care. The family of 10 the insured person also has interests against these options. 11 Accordingly, it would be advantageous to provide a method and system 12 to increase the incentive for the insured entity to reduce the insured-against risk, even 13 when that insured-against risk is relatively inevitable. In the case of long-term care 14 insurance, it is in the underwriter's interest to provide incentives for the insured person 15 and their family to maintain the insured person's health and independence for as long 16 as possible (quite apart from the emotional incentives they already have). 17 Application Serial No. _____, Express Mail Mailing No. EE 261 914 18

722 US, filed September 23, 1998, in the name of Stephen J. Brown, titled "Dynamic

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Modeling and Scoring Risk Assessment," assigned to the same assignee, attorney

- docket number HHN-003 describes techniques for modeling and scoring risk assess-
- 3 ment that are time-dependent, and in one embodiment are responsive to progression of
- a disease or degenerative condition in a patient.
- One aspect of this co-pending application is that the insurer can dynami-
- 6 cally adjust the risk assessment of individual insured persons in response to actions
- 7 taken (or not taken) by those insured persons to maintain their own health. The un-
- 8 derwriter can thus dynamically adjust the cost or the benefits of the insurance policy in
- 9 response to those actions. By doing so, the underwriter, the insured person, and the
- insured person's family have the common goal of maximizing the useful life and inde-
- pendence of the insured person.
- As described in the co-pending application, dynamic reassessment can
- 13 be performed in conjunction with a monitoring and scoring system for determining
- risk assessment for populations and for individuals with regard to those populations.
- 15 It would also be desirable for the insured person (and associated others)
- to make use of dynamic risk reassessment to monitor and influence the behavior of the
- insured person, to reduce the risk. It would also be desirable to provide the insured
- person, and the insured person's family with information available to the underwriter,

and to suggest particular prescribed or proscribed actions that would reduce short-term risk and provide a greater payoff for all concerned.

Accordingly, it would be advantageous to provide the insured person, 3 and associated others, with feedback information from dynamic reassessment of the 4 risk associated with the insured person, so that the insured person, and associated oth-5 ers, can act to minimize that risk. This advantage is achieved in an embodiment of the 6 invention in which the insured person and their beneficiaries are provided with feed-7 back information and instruction responsive to dynamic risk reassessment, and in 8 which payments from an associated set of insurance products are allocated dependant on compliance with that feedback. For example, one such insurance product includes 10 a long-term care component and a life insurance component, and devotes a fraction of 11 the product premium to one or the other component in response to compliance with the 12 feedback offered by the underwriter. 13

Summary of the Invention

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The invention provides a set of techniques and products in which one or more insured persons and one or more associated beneficiaries are monitored with regard to dynamic risk reassessment, are given feedback information responsive to that dynamic risk reassessment, and are encouraged to comply with the feedback information. In a preferred embodiment, the insured persons and associated beneficiaries are

coupled to a client-server system that is configured to obtain dynamic measurement of .1 medical information (for example, using bio-medical devices or using a question and 2 answer format), and the client-server system is configured to alert the insured persons 3 and associated beneficiaries to suggested behaviors for reducing risk. The preferred embodiment includes an insurance product in which portions of the insurance pre-5 mium are allocated to one or more components (such as a long-term care benefit or a 6 life insurance benefit), in response to compliance with the suggested behaviors. Thus, 7 the insured is provided with an incentive for compliance with the suggested behaviors for reducing risk by receiving a more beneficial allocation of the premium to the com-9 ponents of the insurance product. 10

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In a preferred embodiment, an insured patient is examined at intervals by medical personnel, to determine medical information that can be used as factors for dynamically determining a risk assessment for that insured patient. The medical personnel can determine a medical regimen (possibly including diet, exercise, prescribed medication, or other factors) that are intended to reduce the insured-against risk. The insured patient, and where appropriate, associated beneficiaries or other close relations, use a client device with a client-server system to provide dynamic medical information regarding the condition of the insured. For example, the client device can periodically measure blood glucose, blood pressure, heart rate, weight, and the like. Similarly, the client device can periodically question the insured patient or the close

relations for information about the insured, such as affect or mentation, diet or exercise, and the like.

In response to the prescribed medical regimen and information from the insured patient, a server device receiving that information from the client device can dynamically reassess risk factors associated with that insured patient, and can alert medical personnel or close relations in response thereto. In response to dynamic risk assessment, the server device can modify which portions of an insurance premium (or other financial product payments) are allocated to one or more components (such as a long-term care component or a life insurance component). The server device can use patient compliance with the suggested medical regimen as one measure to be factored into the dynamic risk assessment.

Fig. 1A shows a block diagram of a system for data collection and interpretation for a population; Fig. 1B shows details of the client device shown in Fig. 1A. Fig. 1C shows devices that may be connected to client device;

Description of the Drawings

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.1	Fig. 2	illustrates a data flow diagram indicating some of the data paths
2		used in a preferred embodiment;
3	Fig. 3A	illustrates a process for determining dynamic risk assessment;
4	Fig. 3B	illustrates a process used to evaluate patient information;
5	Fig. 4	illustrates a process used to respond to risk; and
6	Fig. 5	illustrates a process used to determine feedback information.

Description of the Preferred Embodiments

In the following description, a preferred embodiment of the invention is described with regard to preferred process steps and data structures. Embodiments of the invention can be implemented using general-purpose processors or special purpose 10 processors operating under program control, or other circuits, adapted to particular 11 process steps and data structures described herein. Other embodiments include com-12 puter program products that contain computer code embodied in a computer readable 13 media for causing a computer to perform the process steps. Implementation of the 14 process steps and data structures described herein would not require undue experi-15 mentation or further invention. 16

Related Applications

!	Inventions described herein can be used in combination or conjunction
3	with inventions described in the following patent applications. These patent applica-
ı	tions are hereby incorporated by reference as if fully set forth herein:
5	• Application Serial No. 09/041,809, filed November 21, 1997 in the
6	name of Stephen J. Brown, titled "Phenoscope and Phenobase," as-
7 ·	signed to the same assignee, attorney docket number RYA-136;
8	• Application Serial No, filed, in the name of Ste-
9	phen J. Brown, titled "Health Management Process Control System,"
10	assigned to the same assignee, attorney docket number RYA-114.
11	 Application Serial No, filed, in the name of Ste-
12	phen J. Brown and Erik K. Jensen, titled "On-line Health Education
13	and Feedback System Using Motivational Driver Profile Coding and
14	Automated Content Fulfillment," assigned to the same assignee, at-
15	torney docket number RYA-115.
16	 Application Serial No, filed, in the name of Ste
17	phen J. Brown, titled "Multiple Patient Monitoring System for Pro
18	active Health Management," assigned to the same assignee, attorne
19	docket number RYA-116.

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		Application Serial No, filed, in the name of Ste-
		phen J. Brown, titled "On-Line Health Education Using Composites
		of Entertainment and Personalized Health Information," assigned to
	. •	the same assignee, attorney docket number RYA-119a.
5		• Application Serial No, filed, in the name of Ste-
5		phen J. Brown, titled "Monitoring System for Remotely Querying In-
7		dividuals," assigned to the same assignee, attorney docket number
8 -		RYA-126.
9	•	Application Serial No, filed, in the name of Ste,
0		phen J. Brown, titled "Multi-User Remote Health Monitoring Sys-
1		tem," assigned to the same assignee, attorney docket number RYA-
12		131a.
13 ·		Application Serial No, Express Mail Mailing No. EE 261
14		914 722 US, filed September 23, 1998, in the name of Stephen J.
15		Brown, titled "Dynamic Modeling and Scoring Risk Assessment,"
16		assigned to the same assignee, attorney docket number HHN-003.
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System for Reducing Risk

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The invention enables dynamic risk determination of an insured's condi-2 tion. An example of when the invention can be used is if the insured has a progressive 3 condition, which will eventually require long-term care (such as diabetes), but for which in-home care is currently appropriate. Another example where dynamic risk determination can be used is if the insured is at risk for a medical setback (such as an 6 MI or a stroke) but currently is capable of self-care. Yet another example is when the 7 insured is currently being cared for by family, but the care burden is increasing and the insured will eventually require long-term care. The invention allows the underwriter 9 to dynamically determine the current risk to the insured and to provide incentives to 10 the insured to reduce that risk. 11

Fig. 1A shows a block diagram of a system for data collection and interpretation for a population.

Referring to Fig. 1A, a system 100 includes a client device 110, a server device 120 including a database of information 121 and a program memory 122, and a data review element 130. These devices are connected via a communication channel 140, such as a communication network as is well known in the art, and as more fully described in the Phenoscope and Phenobase patent application (serial no. 09/041,809).

The communication channel 140 may be a simple point-to-point network

(for example a wire connecting the client device 110 with the server device 120), or a

complex network such as the Internet.

Referring to Fig. 1B, the client device 110 is disposed locally to a patient 111 (the insured), and includes an output element 112 for presenting information to the patient 111, and an input element 113 for entering information from the patient 111.

As used herein, "locally" refers to a logical relationship to the patient 111, and does not have any necessary implication with regard to actual physical position. In a preferred embodiment, the client device 110 is relatively small or compact, and can be disposed on a night table or otherwise near the patient 111.

The output element 112 includes a display screen 114, on which ques-11 tions and suggested answers can be displayed for the patient 111, to facilitate informa-12 tion entry, or on which instructions can be displayed for the patient 111, to instruct the 13 patient 111. The output element 112 can also include a speaker 115, to present infor-14 mation in conjunction with or in alternative to the display screen 114. The output ele-15 ment 112 can also include a bell or other sound element, or a bright light 119 or a flag, 16 to alert the patient 111 that the client device 110 has questions or information for the 17 patient 111. 18

PCT/US99/22020 WO 00/17800

The input element 113 includes a plurality of buttons 116A-D for entering information. 2

The input element 113 can also include one or more data ports 117A-D 3 for entering information from other devices. Referring to Fig. 1C, such other devices 4 118 can include a medical measurement device, such as a blood glucose meter or a 5 blood pressure monitor. Such other devices 118 can also include a general purpose or special purpose client workstation, such as a personal computer or a hand-held digital calendar. 8

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The server device 120 is disposed logically remotely from the patient 111, and includes a database 121 of information about the patient 111 and about other patients in a related population thereof. As used herein, "remotely" refers to a logical relationship to the patient 111, and does not have any necessary implication with regard to actual physical position.

The database 121 includes medical history, medical regimen, and risk progression information for the insured and a similarly situated population. The database 121 also includes the compliance background for the insured indicating how well the insured follows the prescribed medical regimen and avoids the proscribed activi-17 ties. 18

The server device 120 also includes the program memory 122 that contains program code and data to cause the server device 120 to perform subsequently described processes. 3

In a preferred embodiment, the server 120 and database 121 are preferably accessible using a standard network connection (such as a world wide web connection). The server 120 and database 121 may include single stand-alone computers 6 or multiple computers distributed throughout a network.

The data review element 130 is disposed logically remotely from the pa-8 tient 111, and includes an interface 131 disposed for use by an operator 132. The operator 132 can comprise medical personnel, a device operated by medical personnel, or 10 a similar device, capable of interacting with the interface 131 to receive information 11 from the data review element 130 and possibly to enter information into the data re-12 view element 130. Information entered into the data review element 130 can be en-13 tered for ultimate transmission to the server device 120 or to the client device 110. . 14

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The data review element 130 is preferably a personal computer, remote terminal, web TV unit, Palm Pilot unit, interactive voice response system, or any other communication technique. The data review element 130 functions as a remote interface for entering server 120 or client device 110 messages and queries to be communicated to the individuals. The data review element 130 also functions to provide the

PCT/US99/22020 WO 00/17800

professional to evaluate the progression of the insured and to monitor the insured's medical regimen. 2

Other and further information regarding the system 100 is shown in Ap-3 plication Serial No. 09/041/809, titled "Phenoscope and Phenobase," attorney docket number RYA-136 and Application Serial No. _____, titled "Dynamic Modeling 5 and Scoring Risk Assessment," attorney docket number HHN-003. 6

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Fig. 2 illustrates a data flow diagram, indicated by general reference character 200, that indicates how data flows within a preferred embodiment. The nodes include an insured 201, a client device 203, a server device 205, an accounting server 207, a work station 209, and a professional 211. These nodes are connected by data flows that include an 'insured-client device' data stream 221, an client deviceinsured data stream 223, a client-server data stream 225, a server-client data stream 227, a server-workstation data stream 229, a workstation-server data stream 231, a workstation-professional data stream 233, a professional-workstation data stream 235, a 'workstation-accounting server' data stream 237, an 'accounting server-insured' data stream 239, and an 'accounting server-server device' data stream 241. Each of these data streams transfer data between the nodes connected by the data stream. 17

In particular the server device sends patient protocol and interrogatories to the insured by sending this information across the server-client data stream 227 to the client device 203. The client device 203 then instructs or queries the insured 201

- utilizing the client device-insured data stream 223. The insured 201 responds to the
- queries, instructions, or through bio-medical input devices to the client device 203 us-
- ing the 'insured-client device' data stream 221. The client device 203 passes this ac-
- 5 quired information to the server device 205 over the client-server data stream 225.
- 6 The server device 205 stores the information acquired from the insured 201.

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Feedback is provided to the insured 201 by sending feedback information from the server device 205 to the client device 203. This feedback information can include additional medical regimens for the insured 201 to timely follow (for example, additional tests that are determined by the server device 205 responsive to the information just gathered from the insured).

The professional 211 uses the work station 209 (passing data over both the workstation-professional data stream 233 and the professional-workstation data stream 235) to access and/or modify data received by, stored on or created on the server device 205. This data is accessed using the server-workstation data stream 229. The professional 211 can also modify the medical regimen for the insured or provide other information for the insured. These modifications are sent to the server device 205 over the workstation-server data stream 231 and then to the insured using the server-client data stream 227, the client device 203, and the client device-insured data stream 223. The professional 211, using the work station 209 can send information

(reflecting benefits to the insured) to the accounting server 207 using the 'workstationaccounting server' data stream 237. The status of benefits can be sent directly to the
insured using the 'accounting server-insured' data stream 239 (for example by using
postal mail, FAX or other traditional mechanism) or the information can be sent over
the 'accounting server-server device' data stream 241 to the server device 205 and on
to the insured using previously discussed paths.

The professional 211 assesses the insured-against risk using both the static data most recently collected from the insured, the progression over time of the data collected from the insured and information known to, or accessible by the professional 211. This assessment includes the insured's compliance with the prescribed medical regimens and other environmental and behavioral factors. This assessment can also include information and recommendations provided by artificial intelligence expert systems that are accessible to the professional 211 through the work station 209.

Fig. 3A illustrates a dynamic risk assessment process, indicated by general reference character 300, for determining dynamic risk assessment. The dynamic risk assessment process 300 is cyclic in normal circumstances. A 'gather patient information' step 301 obtains medical information (such as bio-medical information) from the insured (using the client device 110) by using a series of questions or by using bio-medical sensors. The medical information is gathered according to a protocol provided by the server device 120. This medical information is sent to a server device

that performs an 'evaluate patient information' step 303 that determines one or more risk factors for the insured as is subsequently described with respect to Fig. 3B. Next, 2 the dynamic risk assessment process 300 delays for an appropriate time at a delay step 3 305. This delay can be varied as appropriate for the insured, the insured's condition, the caregivers, and the insurance provider. The delay step 305 determines the time 5 interval between gathering information from the insured and is appropriately set to be (for example and without limitation) some number of days, weeks or months. Eventu-7 ally, the delay ends at an 'delay complete' step 307 and the dynamic risk assessment 8 process 300 repeats at the 'gather patient information' step 301 to re-determine the in-9 sured-against risk for the insured. 10

The medical information gathered by the 'gather patient information' step 301 is specific to the insured's current risk and progression of the condition. For example, the insured or caregiver may be periodically instructed to check for sores on extremities if the insured is diabetic. In addition, the caregiver can provide information about affect or mentation. If the insured interacts with the client device 110, the response time to questions can also be gathered.

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17 The 'gather patient information' step 301 and the 'evaluate patient in-18 formation' step 303 can be repeated dependent on the data acquired from the insured 19 by the previous iteration. Thus, if the previous iteration returned data that indicates 20 that a subsequent test should be performed, the server device 120 can send the client

device 110 a protocol to cause the client device 110 to obtain the new information
from the insured, caregiver, or other person.

Fig. 3B illustrates an 'evaluate patient information' process, indicated by general reference character 320 that reassesses the risk based on the gathered information and responds to that risk. The 'evaluate patient information' process 320 is invoked by the 'evaluate patient information' step 303 of Fig. 3A and initiates at a 'start' terminal 321. The 'evaluate patient information' process 320 continues to a 'send data to server device' procedure 323, performed by the client device 110, that sends the medical information gathered by the client device 110 to the server device 120. The medical information is stored on the database 121 by a 'store data' procedure 325.

Once the medical information is stored, a 'reassess risk' procedure 327

(as disclosed in Application Serial No. ______, attorney docket number HHN-003)

can use the medical information, a risk-assessment model and the database 121 to determine the current risk of the insured. The risk includes one or more risk factors.

These risk factors are used to determine an insured-against risk.

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Example risk factors include information such as "patient smokes," "patient has diabetes," "patient has diabetes and doesn't bother to check his blood sugar regularly," etc.

Once the insured-against risk has been determined, the 'evaluate patient .1 information' process 320 continues to a 'respond to risk' procedure 329 (subsequently 2 described with respect to Fig. 4). The 'respond to risk' procedure 329 determines one 3 or more medical regimens for the insured. These medical regimens are selected to reduce the risk factors and thus to reduce the insured-against risk of the insured. The 5 'respond to risk' procedure 329 can also adjust the proportion of the insurance cost allocated to components of the financial product used by the insured. The 'reassess 7. risk' procedure 327 and the 'respond to risk' procedure 329 need not be performed 8 every time data is received by the server device 120. These procedures can be exe-9 cuted independent of the following procedures. 10

Once the medical information is stored by the 'store data' procedure 325 11 the dynamic risk assessment process 300, can also continue to a 'determine feedback 12 information' procedure 331 that develops feedback for the insured that can include one 13 or more medical regimens, display of bio-medical information, encouragement to fol-14 low the suggested medical regimen or follow-on protocols. The feedback information 15 is sent back to the client device 110 by a 'send feedback information' procedure 333. 16 A 'present feedback information' procedure 335 then presents the feedback informa-17 tion to the insured and/or the caregiver. The 'evaluate patient information' process 18 320 completes through an 'end' terminal 337. 19

The 'determine feedback information' procedure 331 can also provide
the client device 110 with additional data gathering protocols that are dependent on the
just-gathered information — to obtain additional information. In addition, the 'determine feedback information' procedure 331 checks to determine whether the justgathered information is out-of-limit, indicates a trend, or should be forwarded to a
medical professional.

Other preferred embodiments can allocate these processes between the client device 110 and the server device 120 in a different manner. For example as the relative cost/performance ratio changes for the client device 110 and the server device 120, more of these procedures can be moved to the client device 110.

Fig. 4 illustrates a 'respond to risk' process, indicated by general reference character 400, that is configured to adjust the cost of the financial product between the components of the financial product for the insured. The 'respond to risk' process 400 is invoked by the 'respond to risk' procedure 329 and initiates at a 'start' terminal 401. The 'respond to risk' process 400 then continues to a 'risk change' decision procedure 403 that determines whether the current insured-against risk has sufficiently changed from the existing insured-against risk retrieved from the database 121. If the insured-against risk has not sufficiently changed, the 'respond to risk' process 400 completes through an 'end' terminal 405. Otherwise, the 'respond to risk' process 400 continues to an 'allocate benefits' procedure 407 that reallocates the cost to the

insured between the components of the financial product to correspond to the new insured-against risk. Where the insured-against risk is reduced, the new allocation rewards the insured. However, if the insured-against risk has increased, the insured is
penalized. Next, an 'inform' procedure 409 generates information that will be provided to the insured and/or the caregiver either using postal mail or as information
provided to the insured by the 'present feedback information' procedure 335. This
procedure also provides the new aliocations to an accounting database and/or the payout system for the financial product. Next, the 'respond to risk' process 400 completes
through the 'end' terminal 405.

In a financial product that has at least two components (such as a long-term care component and a life insurance component) the 'allocate benefits' procedure 407 determines a cost for the long term care component and allocates a first payment to that component of the financial product. The 'allocate benefits' procedure 407 then allocates a second payment to the life insurance component of the financial product, to an annuity, or to another benefit for the insured (such as a refund). The second payment is a function of the first payment. This payment allocation is structured to provide an incentive to the insured to conform to the currently suggested medical regimen.

Fig. 5 illustrates a 'determine feedback information' process, indicated by general reference character 500, used to assemble the feedback information. The

'determine feedback information' process 500 is invoked by the 'determine feedback information' procedure 331 and initiates at a 'start' terminal 501. A 'correlate regimen 2 with risk factors' procedure 503 uses the risk factors determined by the 'reassess risk' 3 procedure 327 to select one or more medical regimens that can be provided to the insured. An 'evaluate regimen history' procedure 505 then uses the history of medical 5 regimens suggested to the insured and stored on the database 121 to determine the pre-6 ferred selection of medical regimens. Then a 'modify regimen' procedure 507 modi-7 fies the existing medical regimen if the existing medical regimen is different from the preferred medical regimen. The 'modify regimen' procedure 507 may change the data collection protocol used by the client device 110. These procedures 503, 505, and 507 10 are all dynamic in that they use historical information collected from the insured and 11 are responsive to the progressive nature of the information collected about the insured. 12 This is particularly important for those having a progressive condition or degenerative 13 disease (for example, diabetes, and CHD). 14

Next, a 'select feedback language' procedure 509 selects the language used to present the feedback information to the insured. Often, the selected language is a natural language such as English. However, the 'select feedback language' procedure 509 can also control how much technical jargon is to be included. Thus, the language can be customized for the educational and experience level of the insured and/or the caregiver. A 'prepare feedback information' procedure 511 assembles the feed-

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back information including the suggested medical regimens coded for the language of

the insured. The 'determine feedback information' process 500 completes through an

3 'end' terminal 513.

The 'correlate regimen with risk factors' procedure 503 evaluates the risk factors, the insured's progression and the information gathered from the insured to identify medical regimens best suited to gather additional information from the insured or to help the insured to reduce the insured-against risk. One embodiment of the in-

vention uses Bayesian statistical techniques to perform this correlation.

9 Alternative Embodiments

Although preferred embodiments are disclosed herein, many variations are possible which remain within the concept, scope, and spirit of the invention, and these variations would become clear to those skilled in the art after perusal of this application.

<u>Claims</u>

What is claimed is:

1	1.	A method including steps of:
2		dynamically determining an insured-against risk associated with an in-
3		sured;
4		providing feedback information to said insured responsive to said in
5		sured-against risk; and
		providing an incentive to said insured to reduce said insured-against risk

l· .	. 2	The computer controlled method of claim 1 wherein the step of providing an
2		incentive further includes steps of:
3		dynamically determining a cost for a first component of a financial prod-
4		uct responsive to said insured-against risk;
5		allocating a first payment to said first component in response to said
6		cost; and
7		allocating a second payment, responsive to said first payment, to a sec-
8		ond component of said financial product;
9		whereby said first component and second component have different values to
10		said insured.
1	3.	The computer controlled method of claim 1 wherein the step of dynamically
2		determining further includes steps of:
3		determining one or more risk factors associated with said insured at a
4 .		plurality of times; and
5		re-determining said insured-against risk associated with said insured re-
6		sponsive to the step of determining one or more risk factors.

1	4	The computer controlled method of claim 3 wherein the step of determining
2		one or more risk factors further includes steps of:
3		gathering, at a client device, medical information for said insured at said
4		plurality of times;
5		sending said medical information from said client device to a server de-
6		vice remote from said insured; and
7		comparing, at said server device, said medical information with a risk-
8		assessment model.
1	5,	The computer controlled method of claim 3 wherein the step of providing
2		feedback information further includes steps of:
3		associating, at said server device, a medical regimen with at least one of
4	٠	said one or more risk factors;
5		sending said medical regimen from said server device to said client de-
6		vice; and
7		presenting said medical regimen at said client device.

10

6	An apparatus	including:
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- a client-server system having a client device and having a server device that is logically remote from an insured;
- wherein said client device is configured for collecting medical information regarding said insured and for sending said medical information to said server device;
- wherein said server device is configured to dynamically assess a risk value
 associated with said insured in response to said medical information, and to
 allocate an incentive responsive to said risk value;
- whereby said incentive is responsive to said medical information regarding said insured.

7.	A financial	product	including:
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- a first component having a cost responsive to a dynamic assessment of risk associated with an insured, said first component having a first benefit associated with said insured; and
- a second component having a second benefit associated with said insured, said second benefit responsive to said cost;
- whereby changes in said dynamic assessment of risk determine a relative allocation of said first benefit and said second benefit.
- 8. The financial product of claim 7 wherein the first component includes a long-term care policy having a long-term care benefit.
- The financial product of claim 7 wherein the second component includes a life insurance policy having a life insurance benefit.

10.- A method including:

providing a financial product that includes a first component and a second component, said first component having a cost responsive to a dynamic assessment of risk associated with an insured, said first component having a first benefit associated with said insured, said second component having a second benefit associated with said insured, said second benefit responsive to said cost;

obtaining medical information about said insured;

determining said dynamic assessment of risk using said information; and
changing said first benefit and said second benefit responsive to said dynamic assessment of risk.

- 11. The method of claim 10 wherein the first component includes a long-term care policy having a long-term care benefit.
- 1 12. The method of claim 10 wherein the second component includes a life insur-2 ance policy having a life insurance benefit.

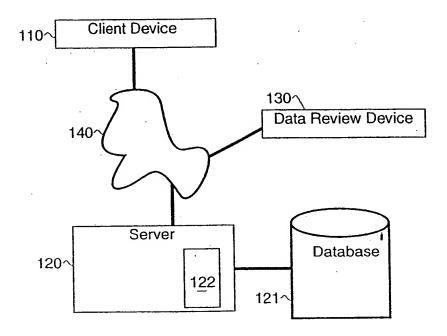
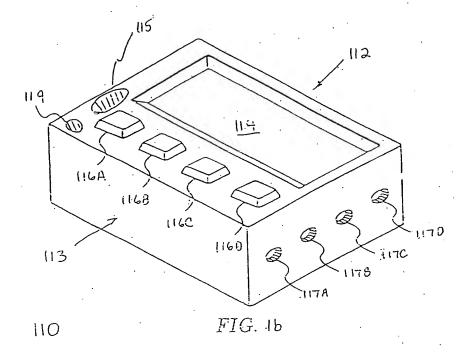


Fig. 1A



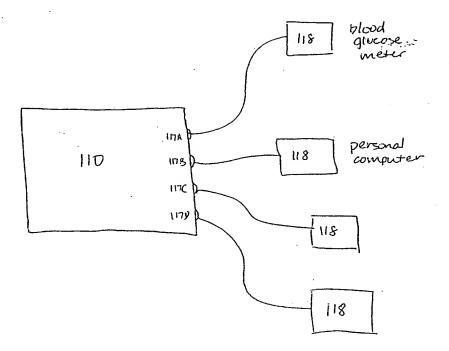


Figure 1c

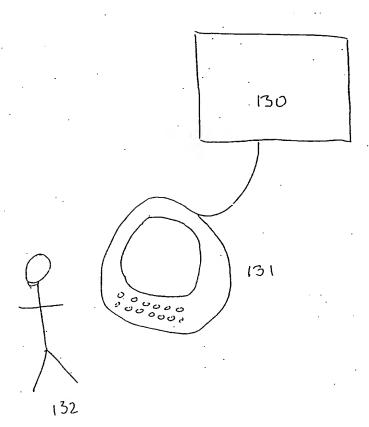
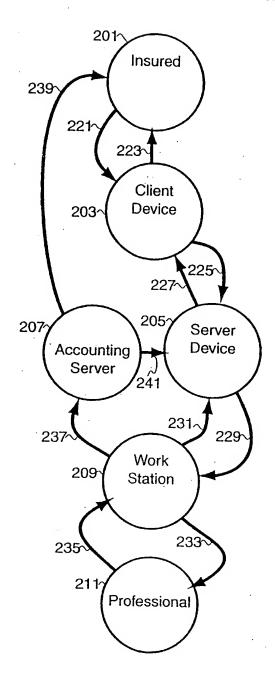


Figure 1d



200 /

Fig. 2

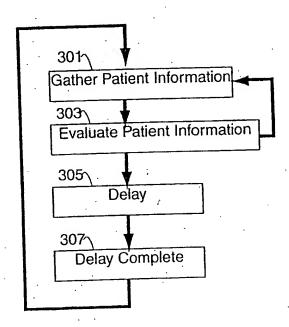


Fig. 3A

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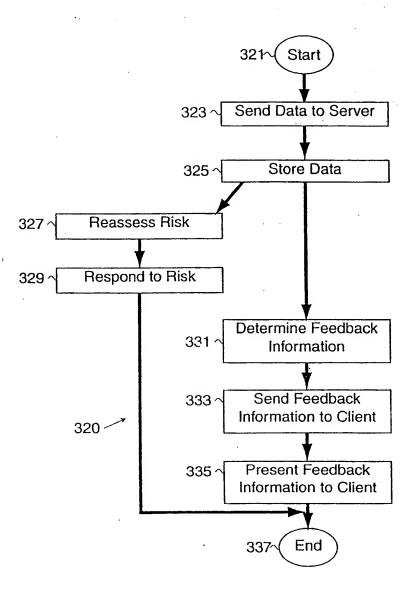


Fig. 3B

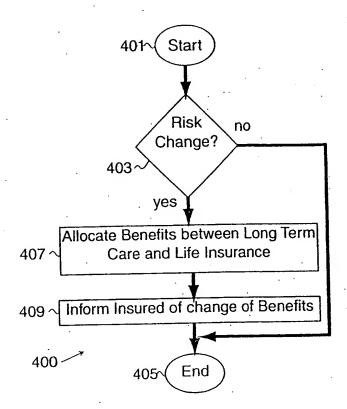


Fig. 4

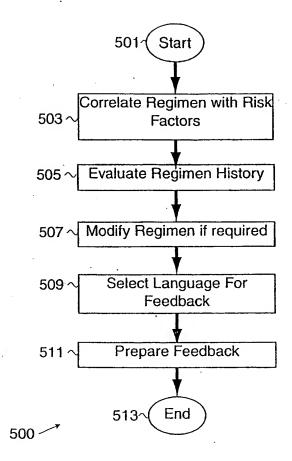


Fig. 5

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